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(71) Applicant (for all designated States except US): **MICROSOFT CORPORATION** [US/US]; One Microsoft Way, Redmond, Washington 98052-6399 (US).

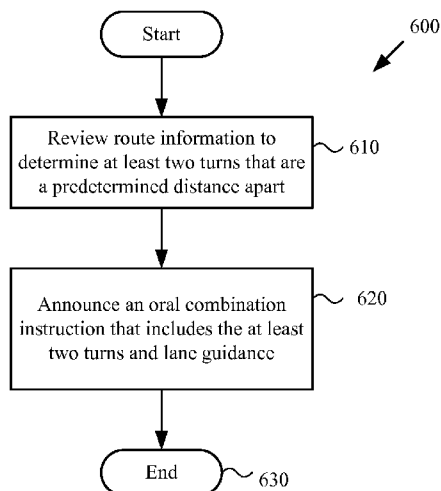
(72) Inventors: **SU, Chien-Wen Danny**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **ALAM, Mu-**

**dassir**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **BHARATHAN, Aarti**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **CANDELAS GONZALEZ, Juan Pablo**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **SOLIS, Adrian**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **WANG, Eric Chih Hung**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **ARONER, Jonathan**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US).

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[Continued on next page]

(54) Title: NAVIGATION SYSTEM WITH ASSISTANCE FOR MAKING MULTIPLE TURNS IN A SHORT DISTANCE



(57) Abstract: Techniques and tools are described for providing navigation assistance when there are multiple turns in succession in a short period of time or distance. In one embodiment, the route information can be reviewed to determine multiple turns in sequence that are less than a predetermined distance apart. These so-called "tight turns" can be handled differently than other turns by announcing the tight turns in a single combination instruction. Additional lane guidance can also be provided. In another embodiment, an audio feedback can be used to indicate that a user completed a successful turn. Such audio feedback can be in combination with the identified tight turns or independently for other turns or events. The audio feedback can also be an indication for the user to tap the display, wherein the tapping results in an immediate indication of the next turn.

**Figure 6**



KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

**Published:**

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## INTERNATIONAL SEARCH REPORT

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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

G01C 21/34; G10L 15/26; G08G 1/0969; G01C 21/36; G08G 1/0968; G10L 21/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) &amp; Keywords: 'navigation', 'route', and 'turn'

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                     | Relevant to claim No. |
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| A         | US 2011-0106534 A1 (LEBEAU MICHAEL J. et al.) 05 May 2011<br>See abstract, paragraphs [0037] - [0136], and figs.1,6,7. | 1-10                  |
| A         | EP 1566612 A1 (DELPHI TECHNOLOGIES, INC.) 24 August 2005<br>See abstract, figs.1-4.                                    | 1-10                  |

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Korean Intellectual Property Office  
189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan  
City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Bo Cheol

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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